

RECEIVED  
CENTRAL FAX CENTER

AUG 23 2006

## AMENDMENTS TO THE CLAIMS:

Claim 53 is amended. Claims 40 and 41 are cancelled. The following is the status of the claims of the above-captioned application, as amended.

Claims 1-30 (Cancelled.)

Claim 31. (Currently amended.) An isolated nucleic acid sequence encoding a polypeptide having glucanotransferase activity, wherein the nucleic acid sequence comprises a nucleic acid sequence selected from the group consisting of:

- (a) a nucleic acid sequence encoding a polypeptide having an amino acid sequence which has at least 80% identity with the amino acid sequence shown as amino acids 1 to 501 of SEQ ID NO:2;
- (b) a nucleic acid sequence having at least 80% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1;
- (c) a nucleic acid sequence which hybridizes under medium stringency conditions with a complementary strand of the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1;
- (d) the glucanotransferase encoding part of the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049; and
- (e) a nucleic acid sequence having at least 80% identity to the glucanotransferase encoding part of the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 32. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence encoding a polypeptide having an amino acid sequence which has at least 80% identity with the amino acid sequence shown as amino acids 1 to 501 of SEQ ID NO:2.

Claim 33. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 80% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 34. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 85% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 35. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 90% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 36. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 95% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 37. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 97% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 38. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 98% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 39. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 99% identity with the nucleic acid sequence shown as nucleotides 1 to 1503 of SEQ ID NO:1.

Claim 40. (Canceled.)

Claim 41. (Canceled.)

Claim 42. (Previously presented.) The nucleic acid sequence of claim 31, wherein the

nucleic acid sequence comprises the glucanotransferase encoding part of the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 43. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 80% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 44. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 85% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 45. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 90% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 46. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 95% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 47. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 96% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 48. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 97% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 49. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 98% identity to the DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

Claim 50. (Previously presented.) The nucleic acid sequence of claim 31, wherein the nucleic acid sequence comprises a nucleic acid sequence having at least 99% identity to the

DNA sequence cloned into a plasmid present in *Escherichia coli* DSM 13049.

**Claim 51.** (Previously presented.) A nucleic acid construct comprising the nucleic acid sequence of claim 31 operably linked to one or more control sequences capable of directing the expression of the polypeptide in a suitable expression host.

**Claim 52.** (Previously presented.) A recombinant expression vector comprising the nucleic acid construct of claim 51, a promoter, and transcriptional and translational stop signals.

**Claim 53.** (Currently amended.) An isolated recombinant host cell comprising the nucleic acid construct of claim 51.

**Claim 54.** (Previously presented.) A method for producing polypeptide having glucanotransferase activity, the method comprising:

- (a) cultivating a recombinant host cell as defined in claim 53 under conditions conducive to the production of the polypeptide; and
- (b) recovering the polypeptide.